

<p>96-306483/31 B04 MITU 94.11.02  MITSUBISHI CHEM CORP *JP 08133986-A  94.11.02 94JP-269780 (96.05.28) A61K 47/26, 9/127, 9/19, 47/10  Lyophilised liposome prepn. for stabilising liposome(s) - comprises cyclic innulo-oligosaccharide and does not alter particle size after rehydration  C96-097601</p>	<p>B(4-C2X, 10-E4C, 12-M6, 12-M11F) .3</p>
<p>Lyophilised liposome prepn. comprises a cyclic innulo-oligosaccharide.</p> <p><u>USE</u>  The prepn. can be used in the stabilisation of liposomes.</p> <p><u>ADVANTAGE</u>  The stable liposome lyophilised prepn. does not change the particle size after rehydration without losing the enclosed pharmaceutically effective ingredient.</p> <p><u>PREFERRED METHOD</u>  The liposome prepn. is partic. a <math>\beta</math>-2,1 bound cyclic structure with 2-8 mols of fructose of formula (I) and a polyhydric alcohol.</p>	<div data-bbox="938 174 1386 422" data-label="Chemical-Block"> <p style="text-align: right;">(I)</p> </div> <p>n = 2-8.</p> <p>A liposome is mixed with (I) at 1:10-1, pref. 1:5-2, and a polyhydric alcohol (e.g. ethylene glycol, polyethylene glycol, polyvinyl alcohol and diethylene glycol, esp. glycerin) and lyophilised to give the desired prod.</p> <p style="text-align: right;">JP 08133986-A+</p>

<p><u>EXAMPLE</u>  200 mg Dipalmitoyl phosphatidyl choline (DPPC) and a cholesterol mixt. in ratio 18:5 were dissolved in <math>\text{CHCl}_3</math> and 2 ml aq. calcein was added and mixed 4 times at 60 °C for 1 min. every 15 mins. to give a multiple lamellar vesicle (MLV).  The MLV was filtered 10 times through a 100 nm pore size filter and gel filtered to give liposome particles. The particles at 20 mg/ml were mixed with 60 mg/ml cyclic innulo-oligosaccharide and 10 mg/ml glycerin and lyophilised to give the desired prod. The prod. was re-hydrated and recovered at 92%.(LV)  (4pp079DwgNo.0/0)</p>	<p style="text-align: right;">JP 08133986-A</p>
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